

Figure 1

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
BASED ON NODE IDENTIFICATION
DOCKET NO: 026215-00004
Kurt A. DOBBINS

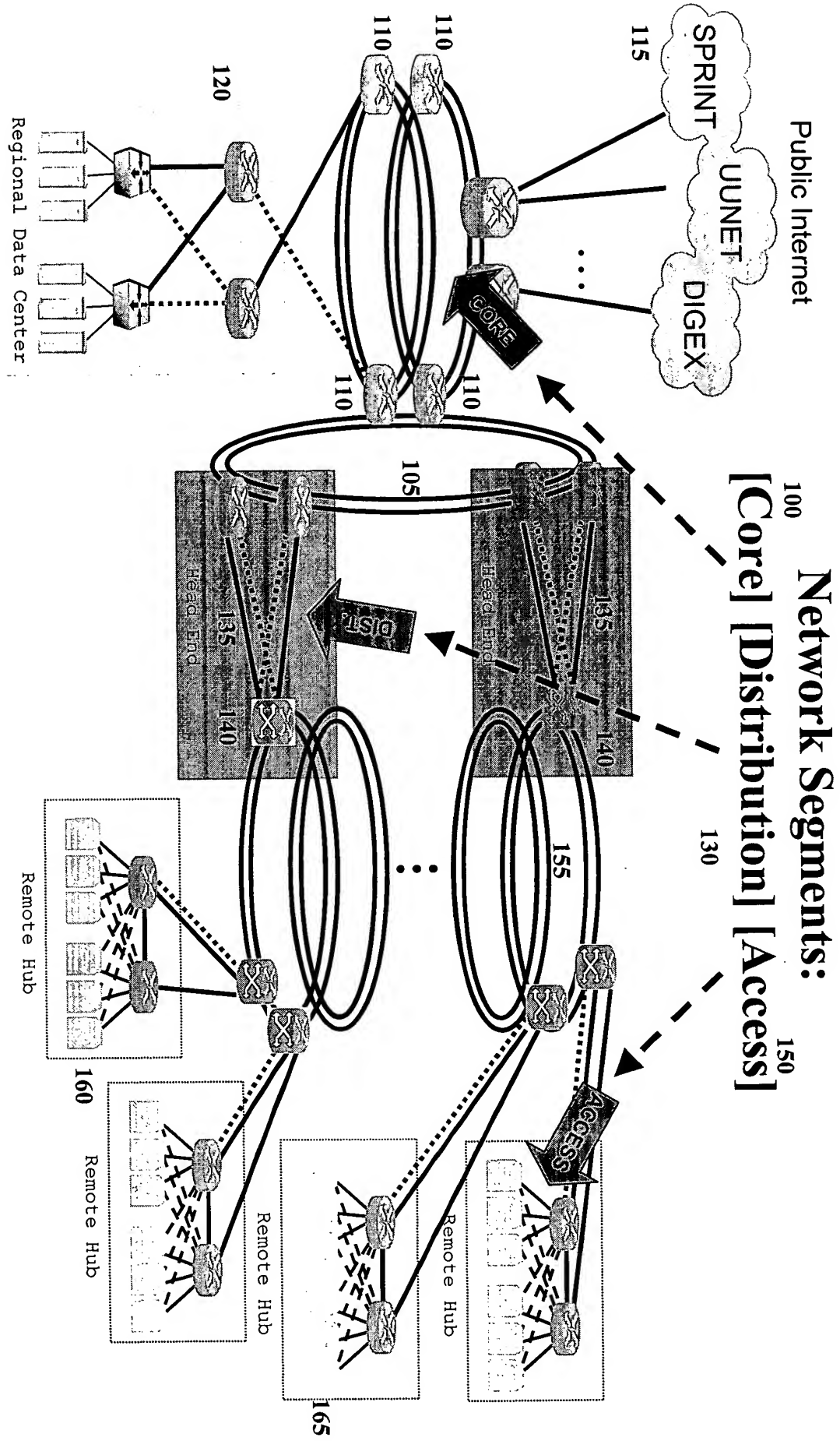


Figure 2

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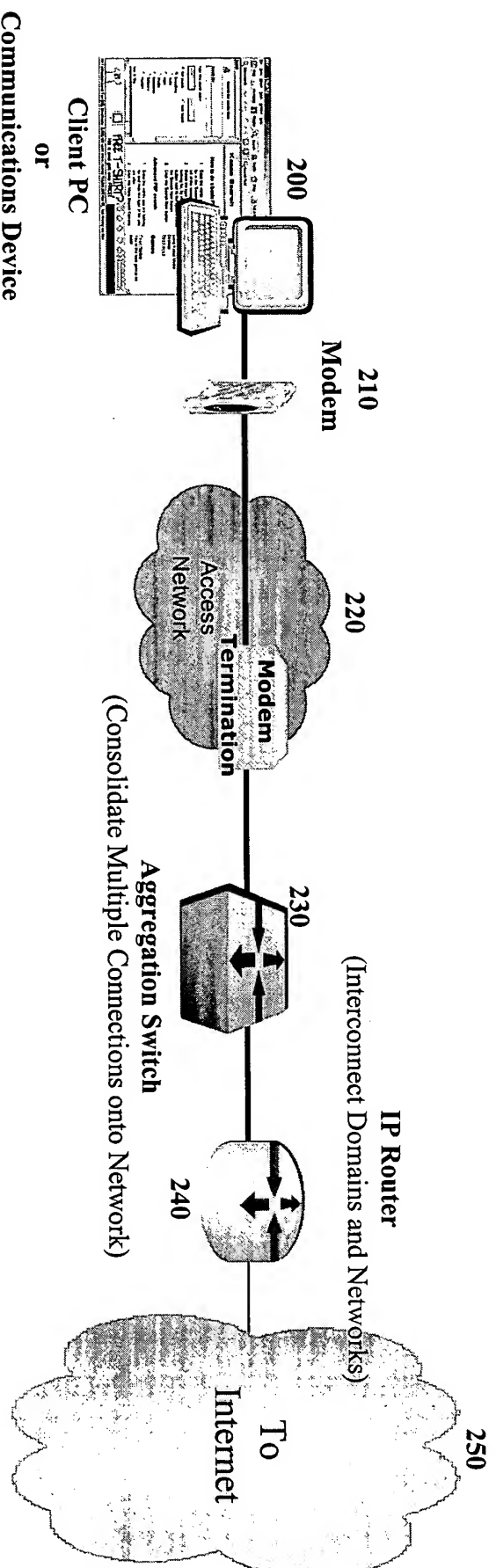


Figure 3

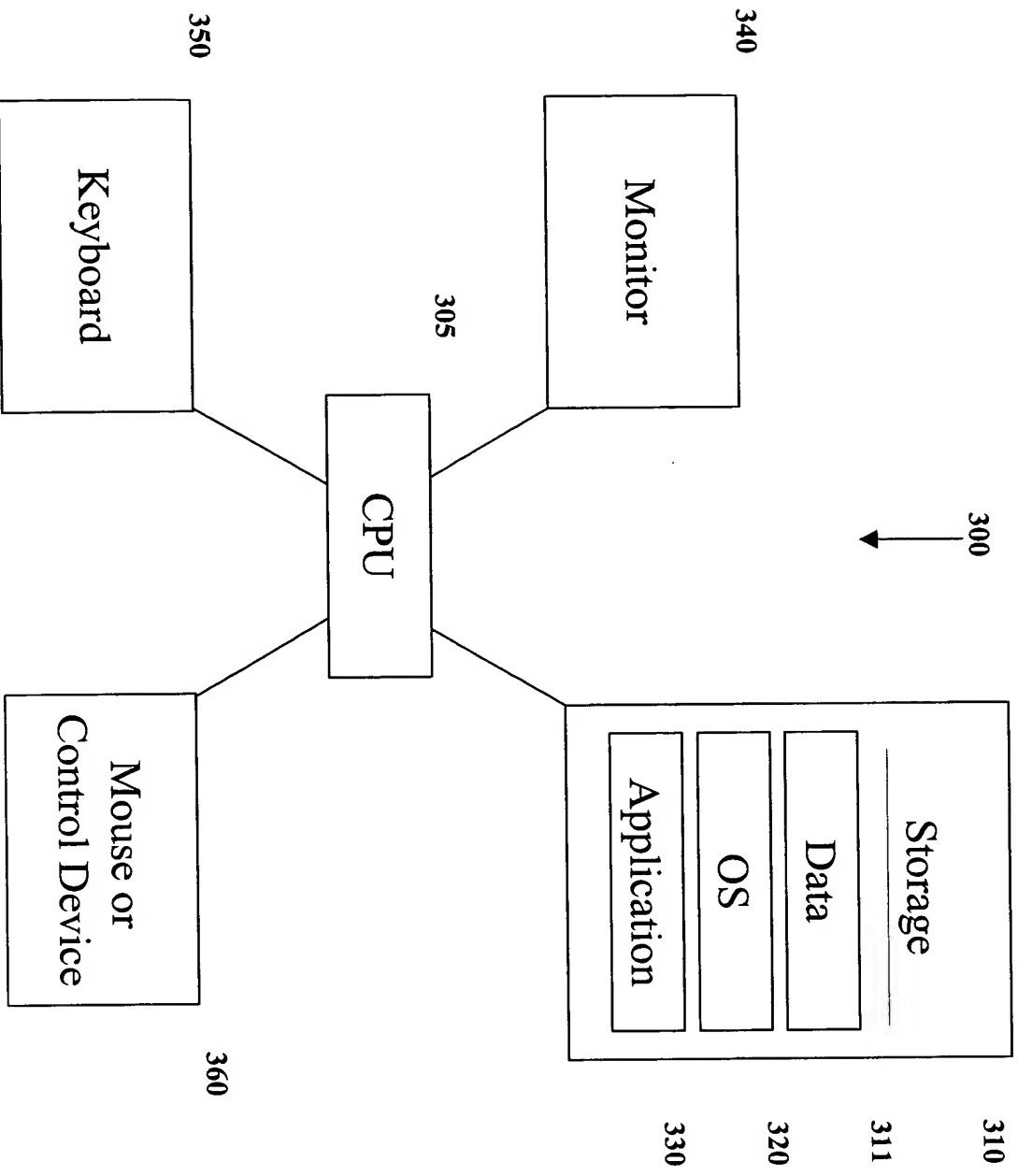


Figure 4

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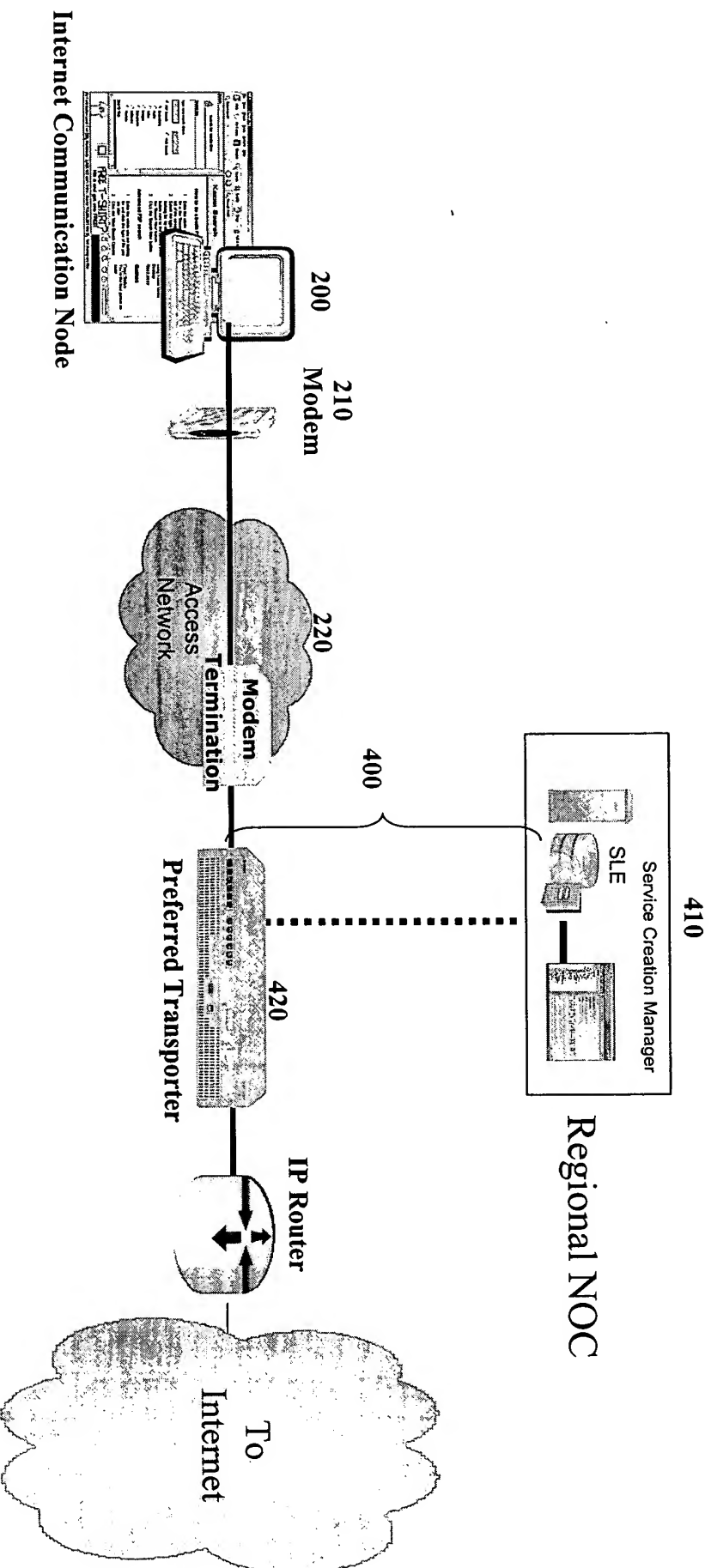


Figure 5

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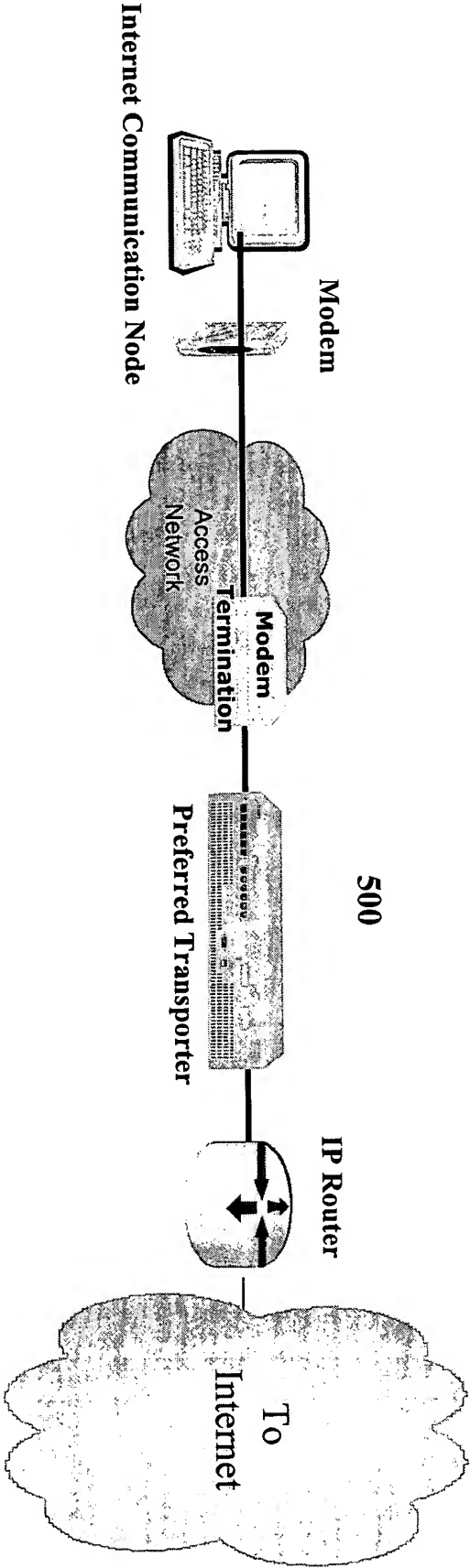


Figure 6

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In Client/Server
networks, nodes
act only as clients

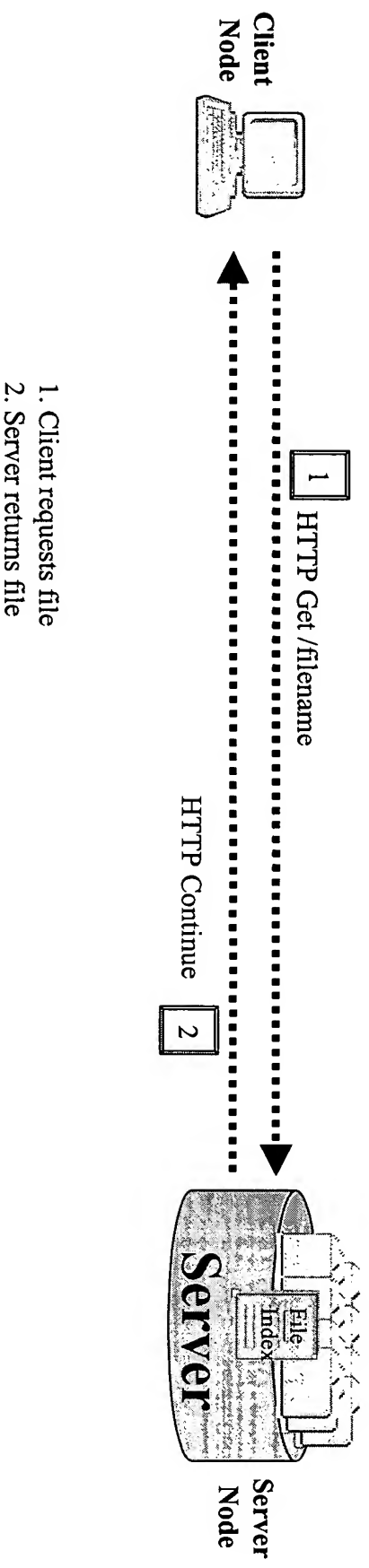


Figure 7

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**In Client/Server
networks, nodes
act only as clients**

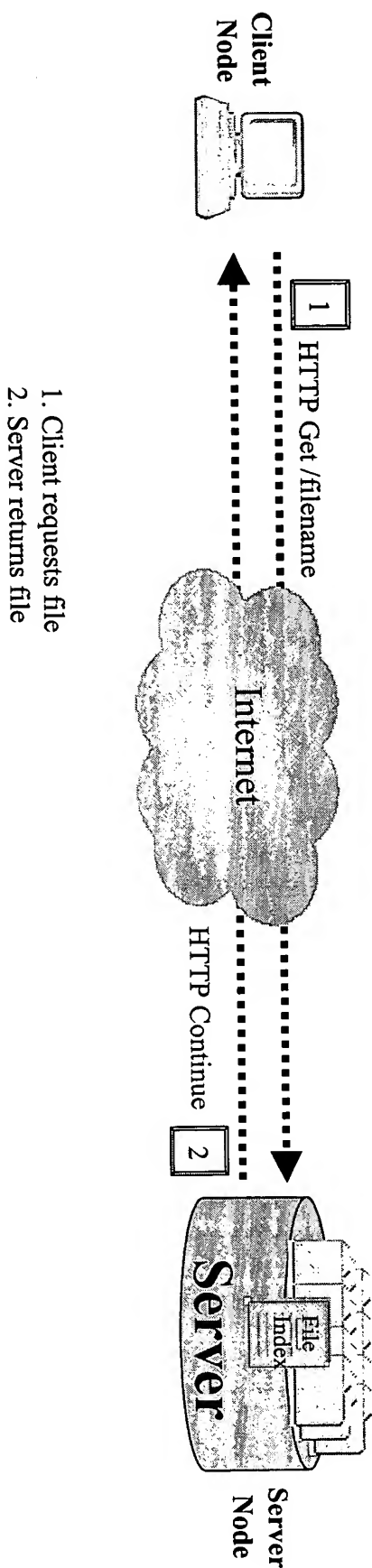


Figure 8

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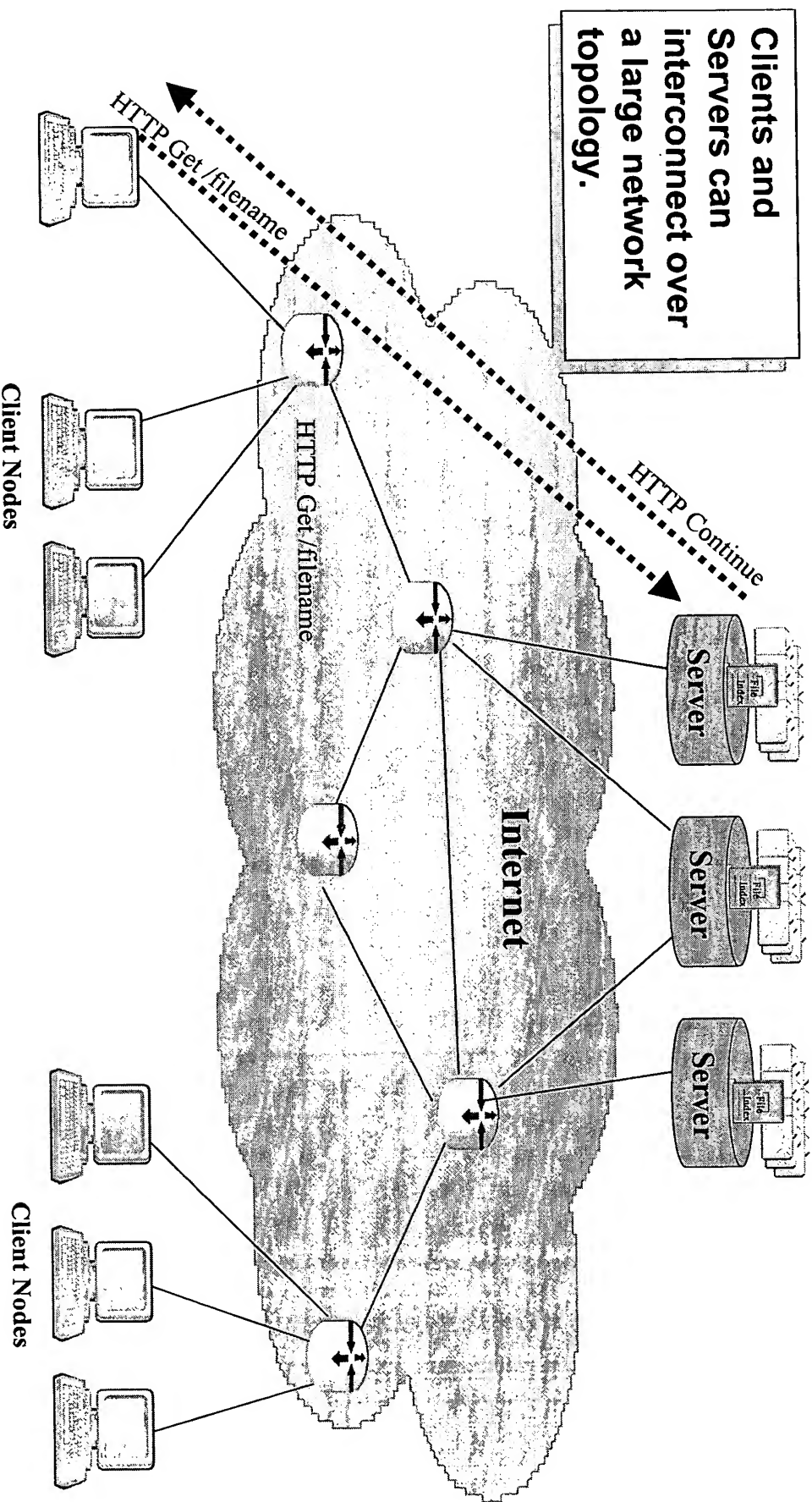


Figure 9

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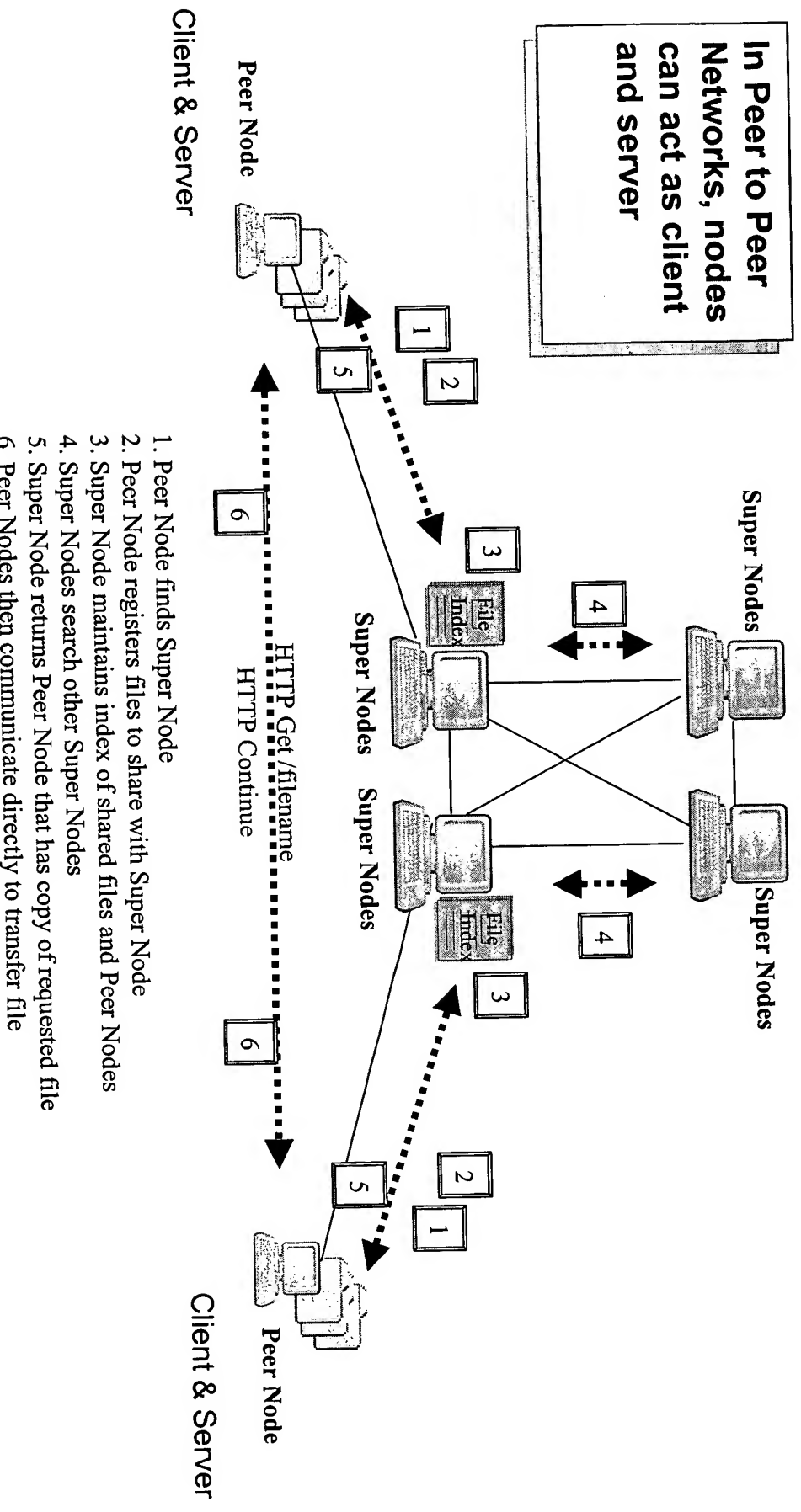


Figure 10

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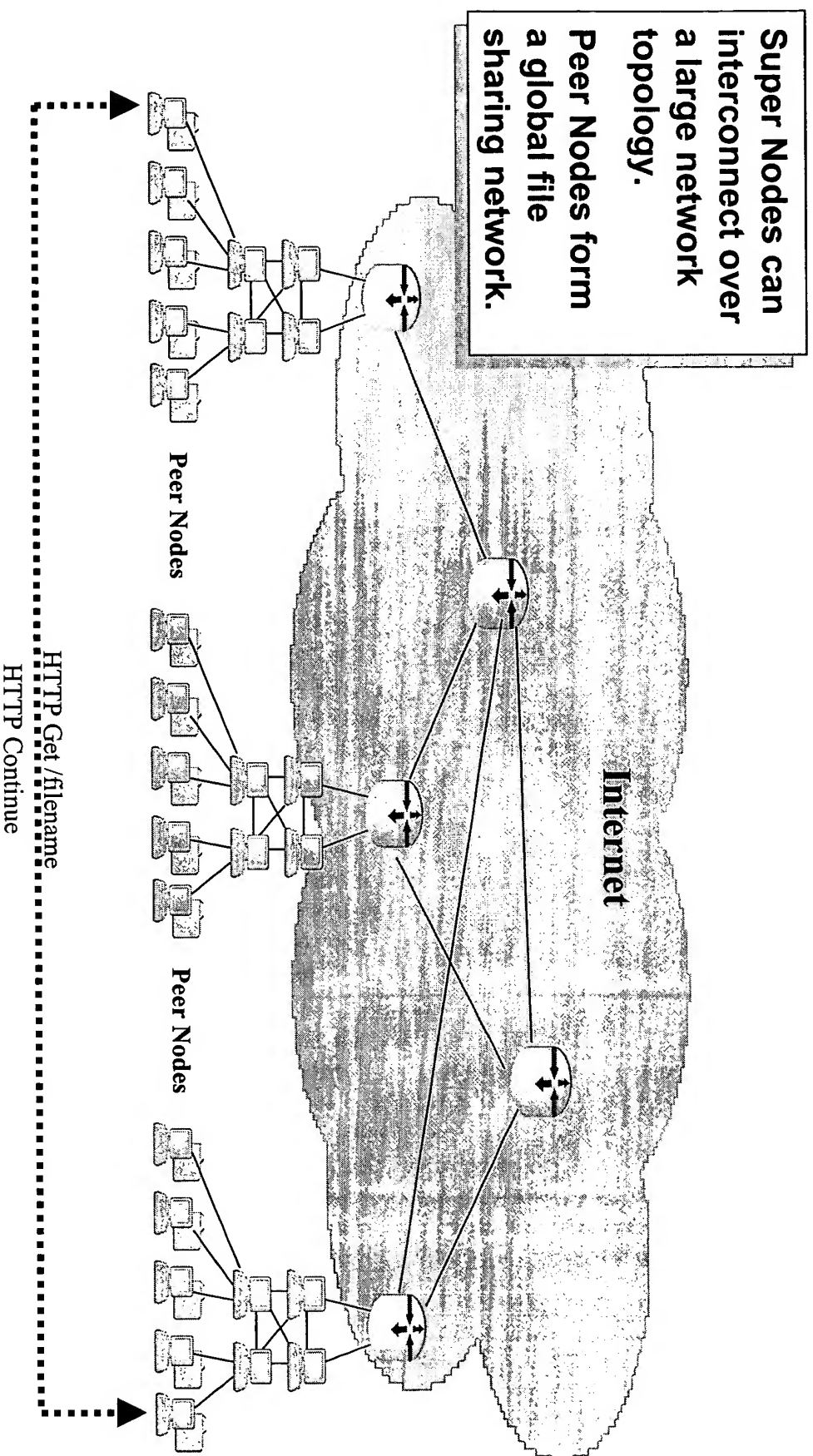


Figure 11

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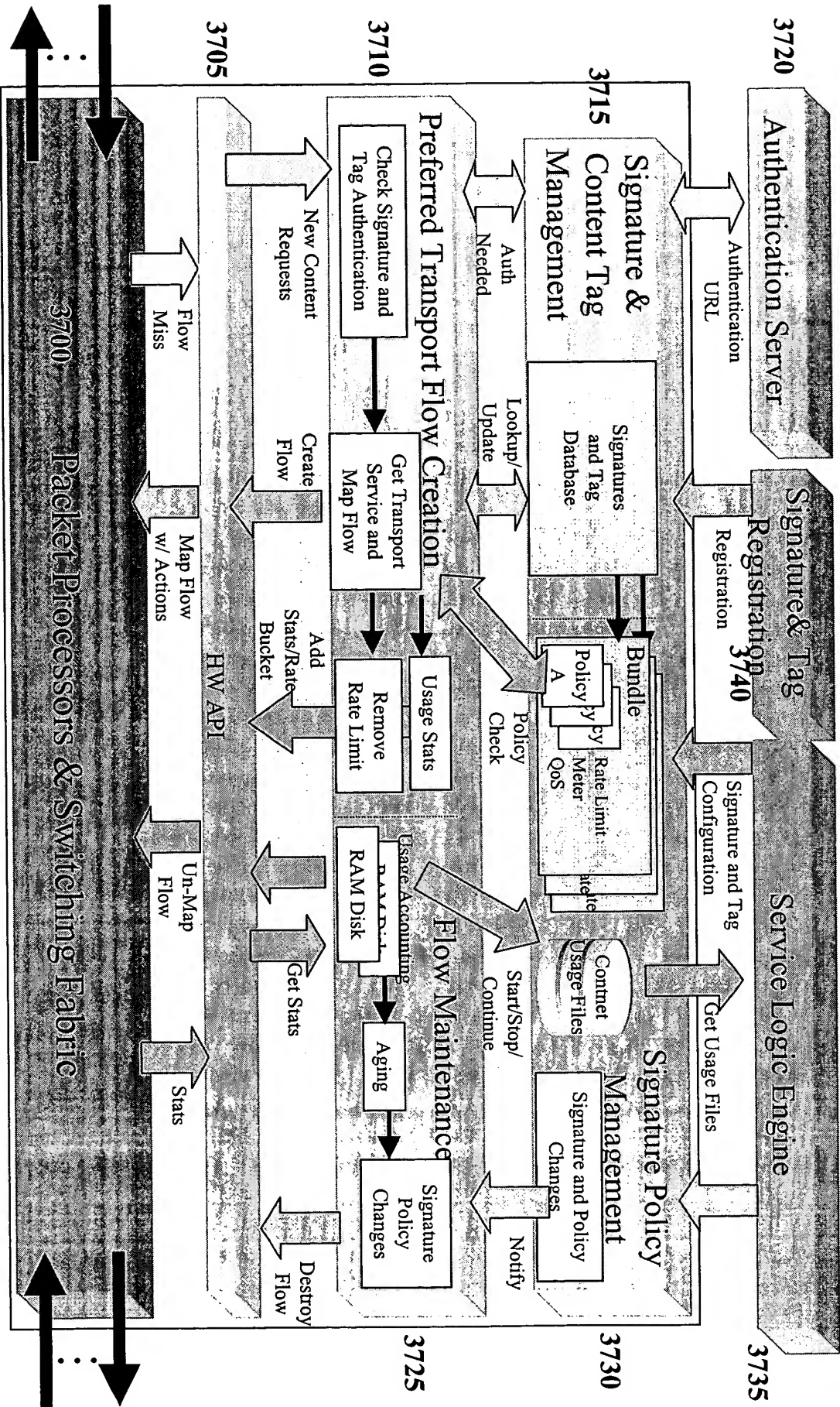
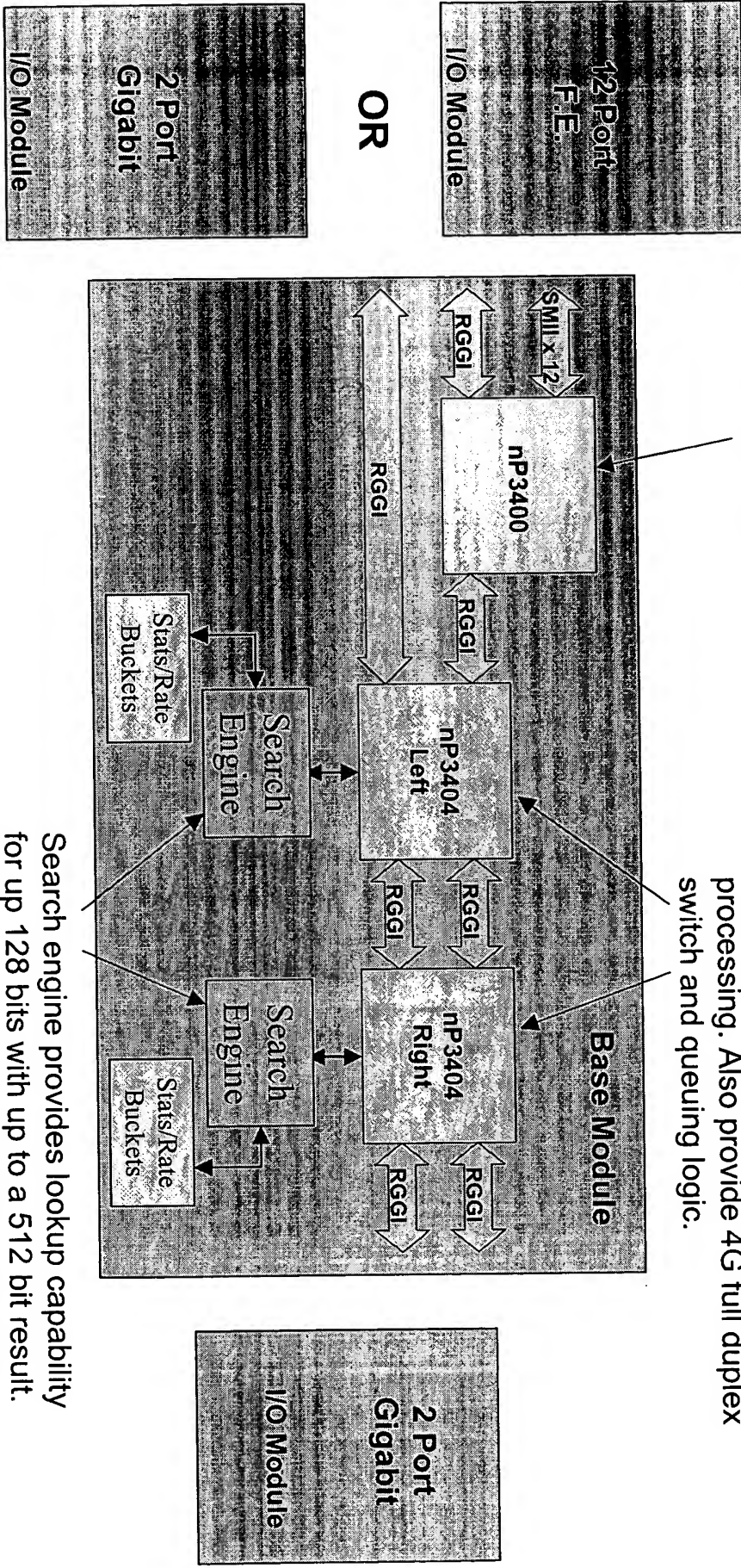


Figure 12

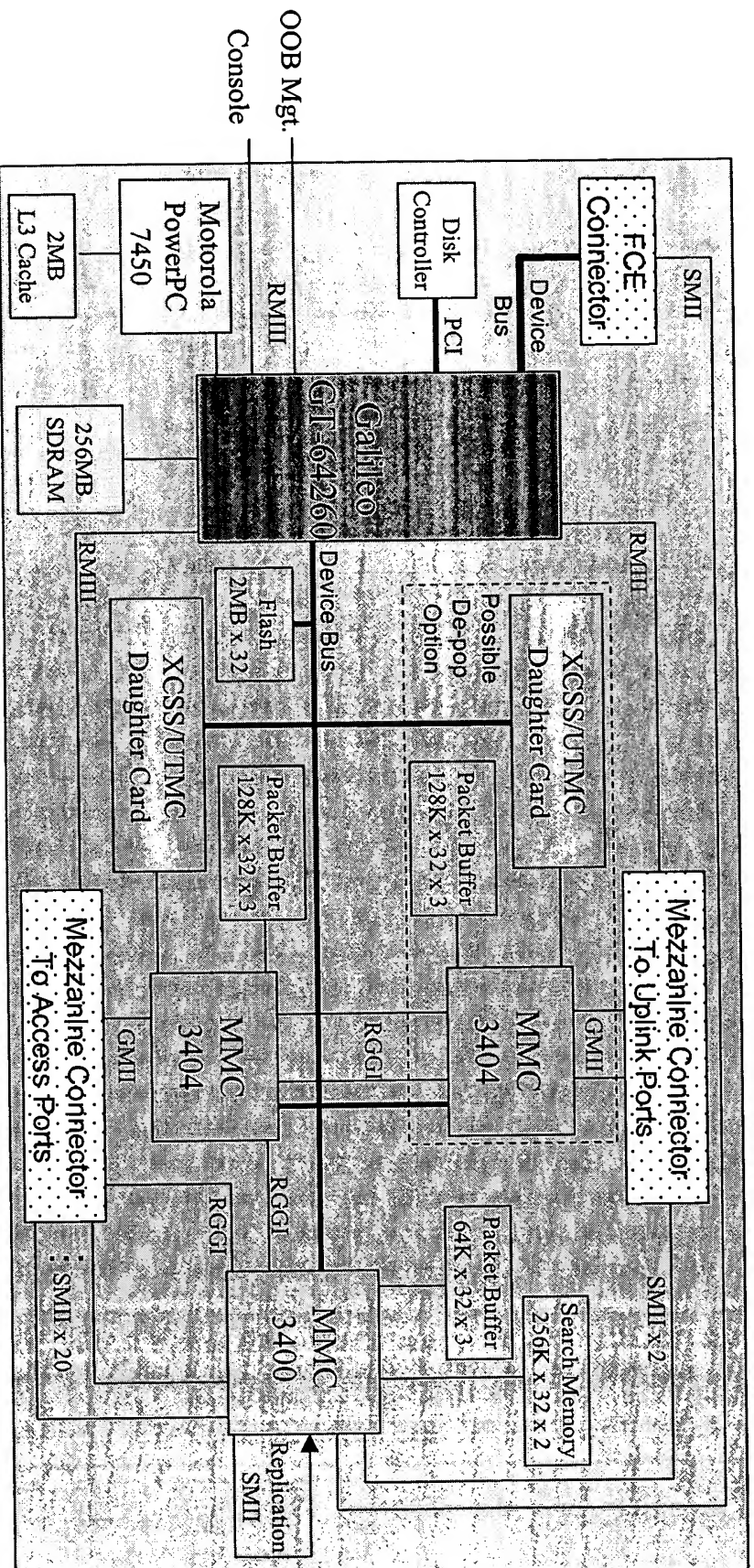
MMC nP3400 used for F.E. aggregation
and L3 multi-cast replication

MMC nP3404 used as network processing
engines. Extract keys and perform packet
processing. Also provide 4G full duplex
switch and queuing logic.



Search engine provides lookup capability
for up to 128 bits with up to a 512 bit result.
Also provides rate limiting and statistics
functions.

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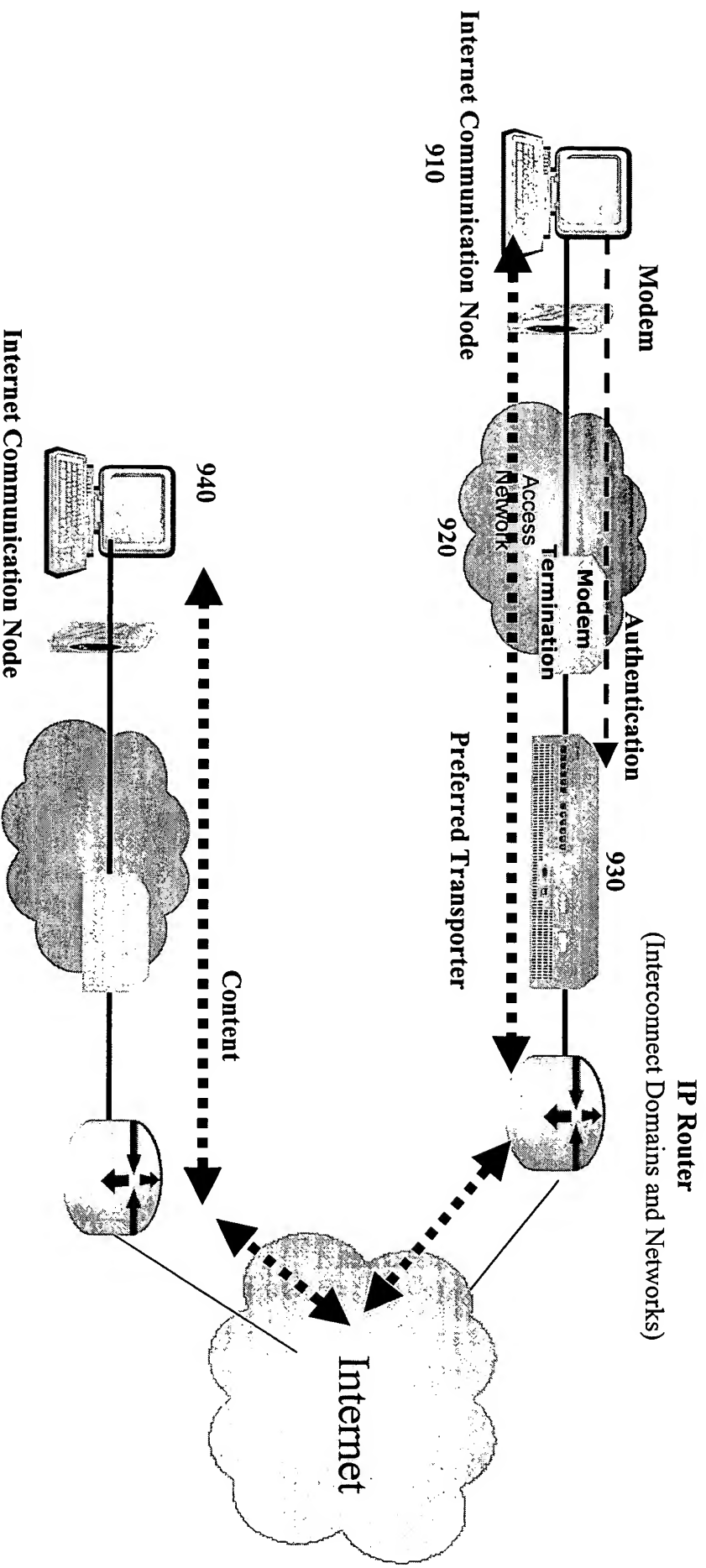


Figure 15

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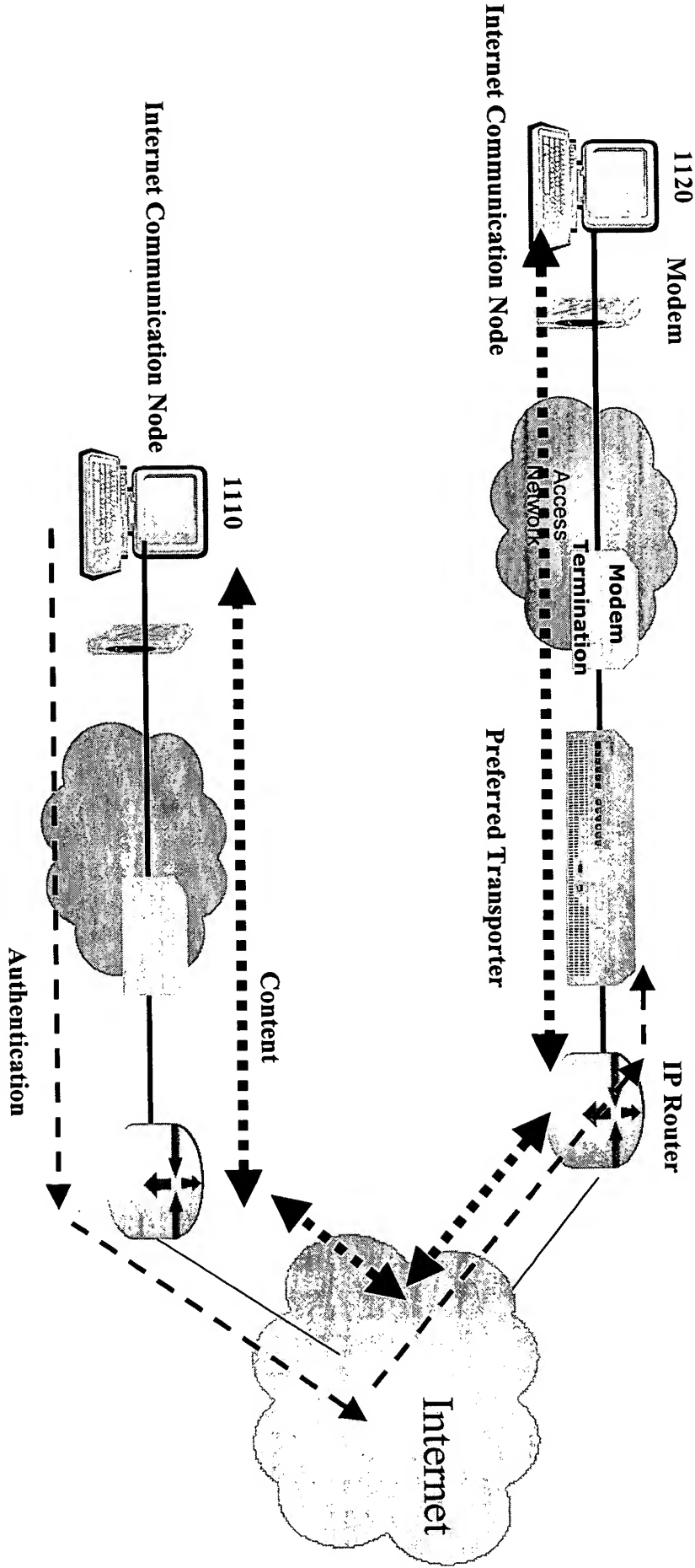
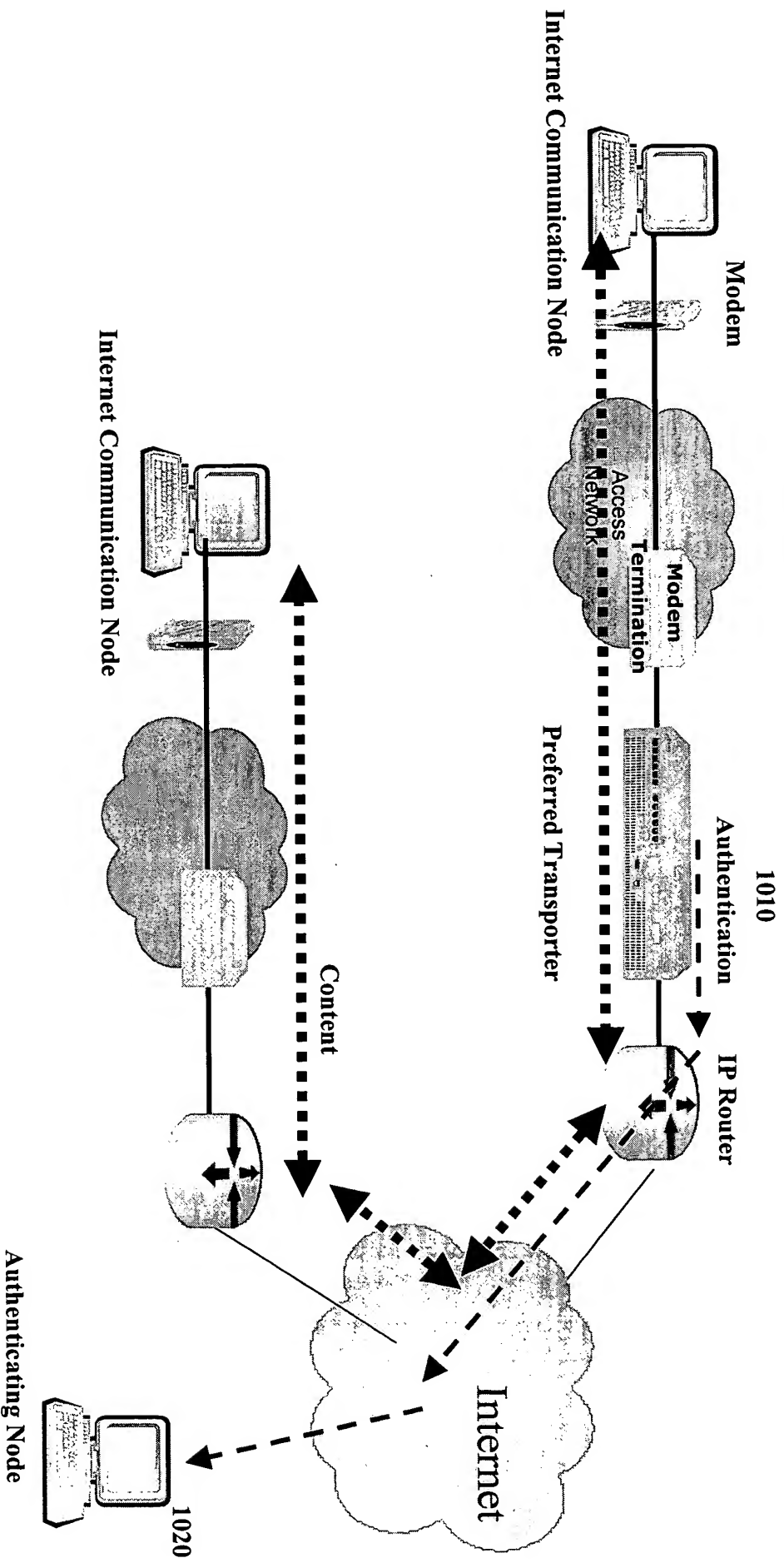


Figure 16

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[illegible]

Figure 18

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
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Field	Length (bytes)	Description	Comments
Tag ID	4	Well-known tag identifier. Allows different tag types to be supported	Value set to "AUTH"
Tag Length	4	Indicates the remaining length of the tag.	Maximum Length of 128 bytes
Tag Version	4	Version of Tag Structure	Value set to "1.0"
Reserved	4	Reserved for Future Use	Unused
Transport Service	4	Preferred Transport Bit Mask for Transport Service Preference.	1 = No Rate Limit 2 = No Byte Cap 4 = On-Demand BW 8 = BLOCK ACCESS
Authenticated Transport	4	Digital Signature used to authenticate preferred transport	
Reserved	8	Reserved for Future Use	Unused
Content Class/Type	16	OID syntax from Content Class naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Application	16	OID syntax from Application naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Originator	16	OID syntax from Content Originator naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Meta Data	16	OID syntax from Content Meta Data naming tree.	Encoded using ASN.1 BER {tag/len/value}
Authentication URL	32	URL of authentication server	

Figure 19

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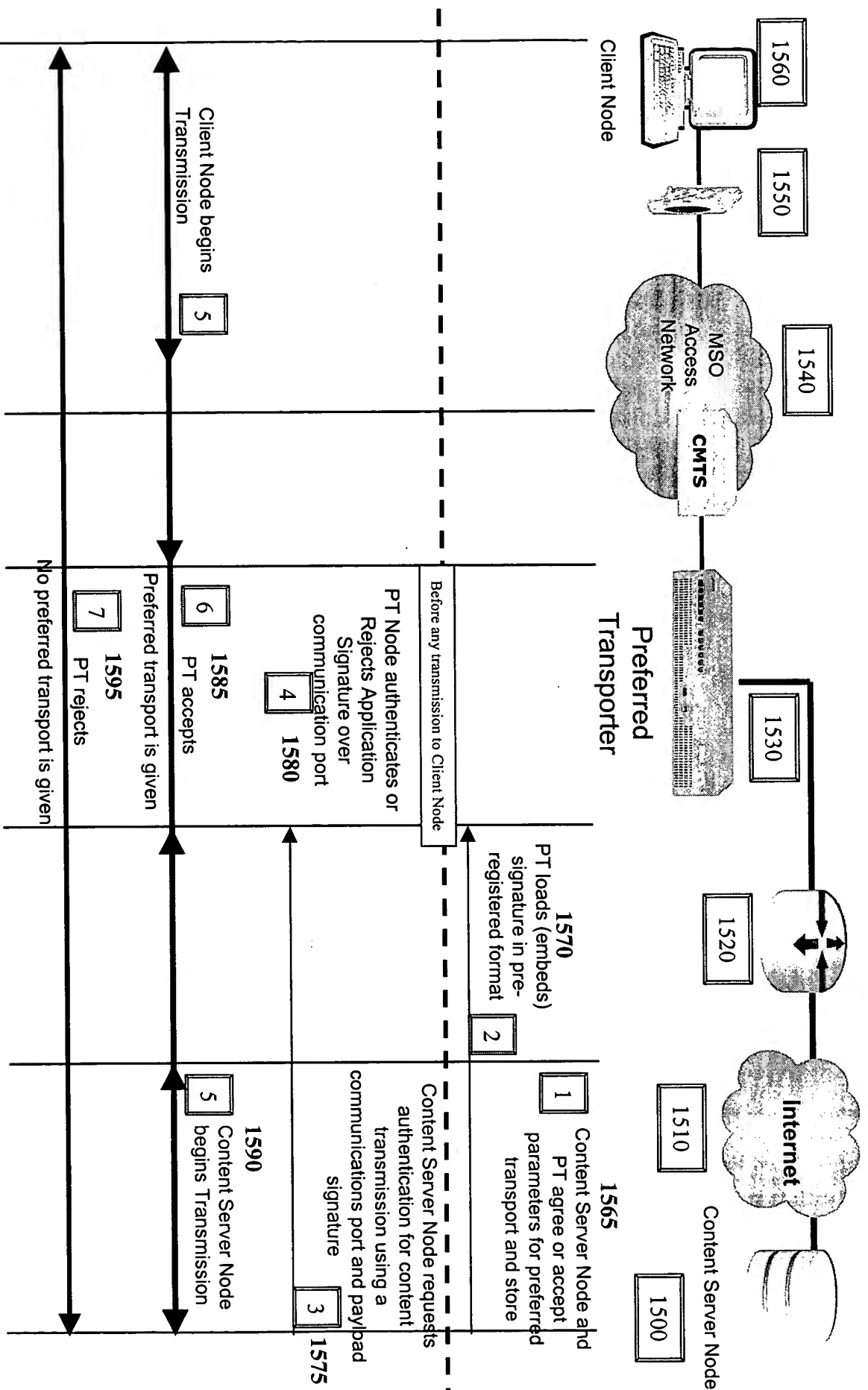


Figure 19a

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
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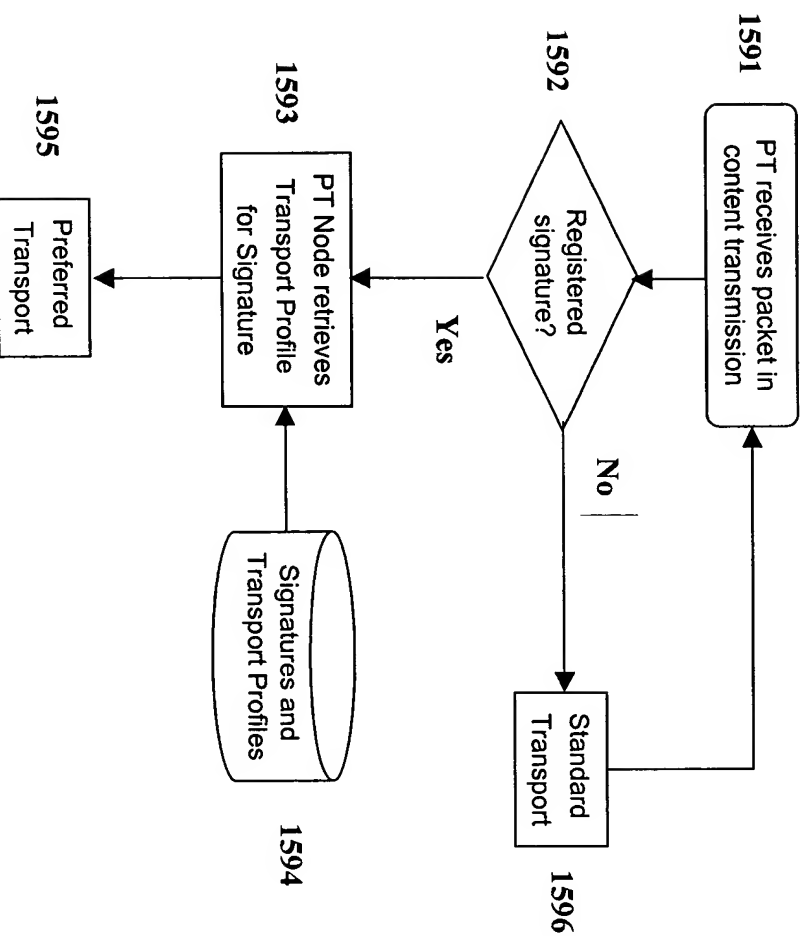


Figure 20

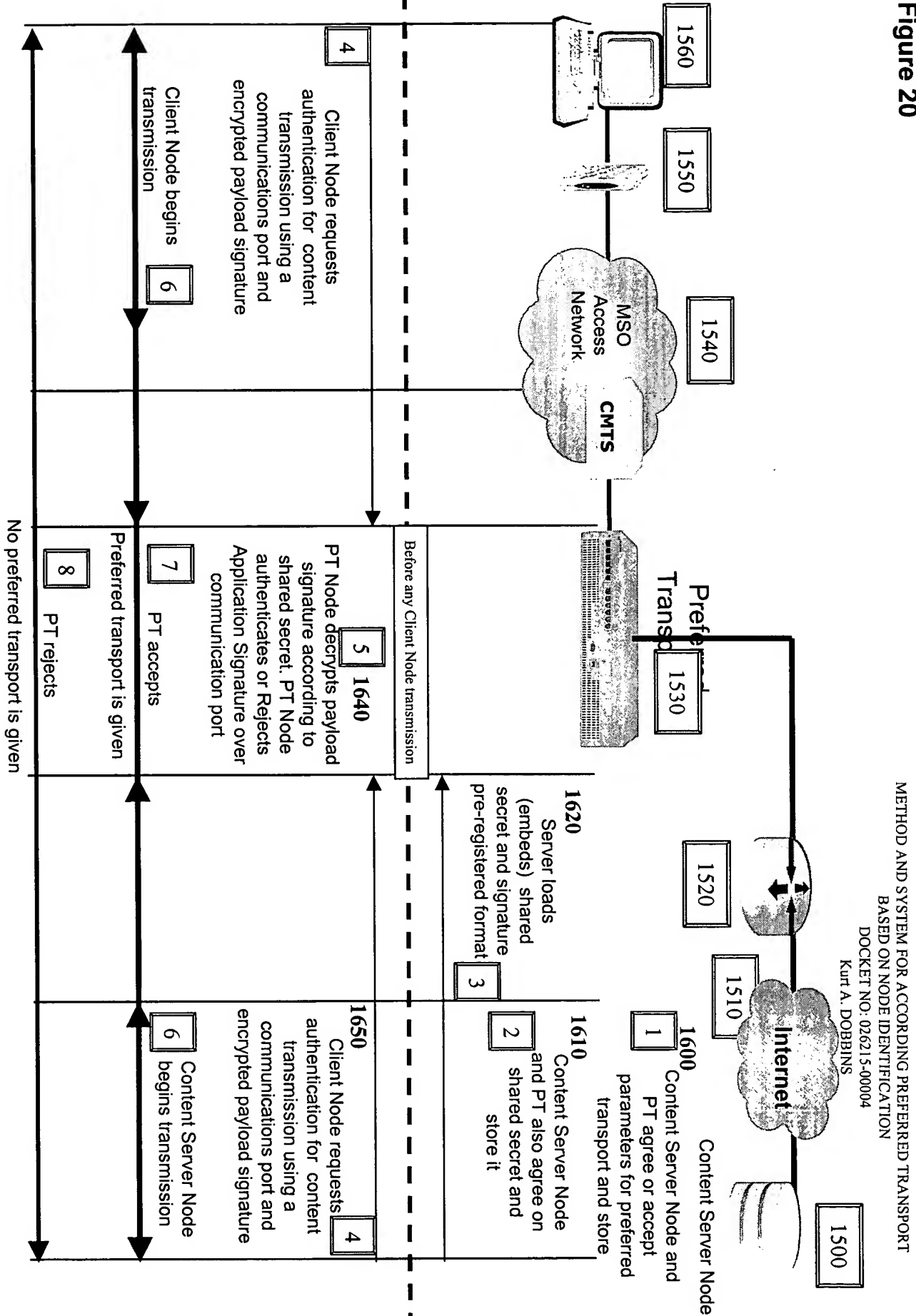


Figure 20a

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
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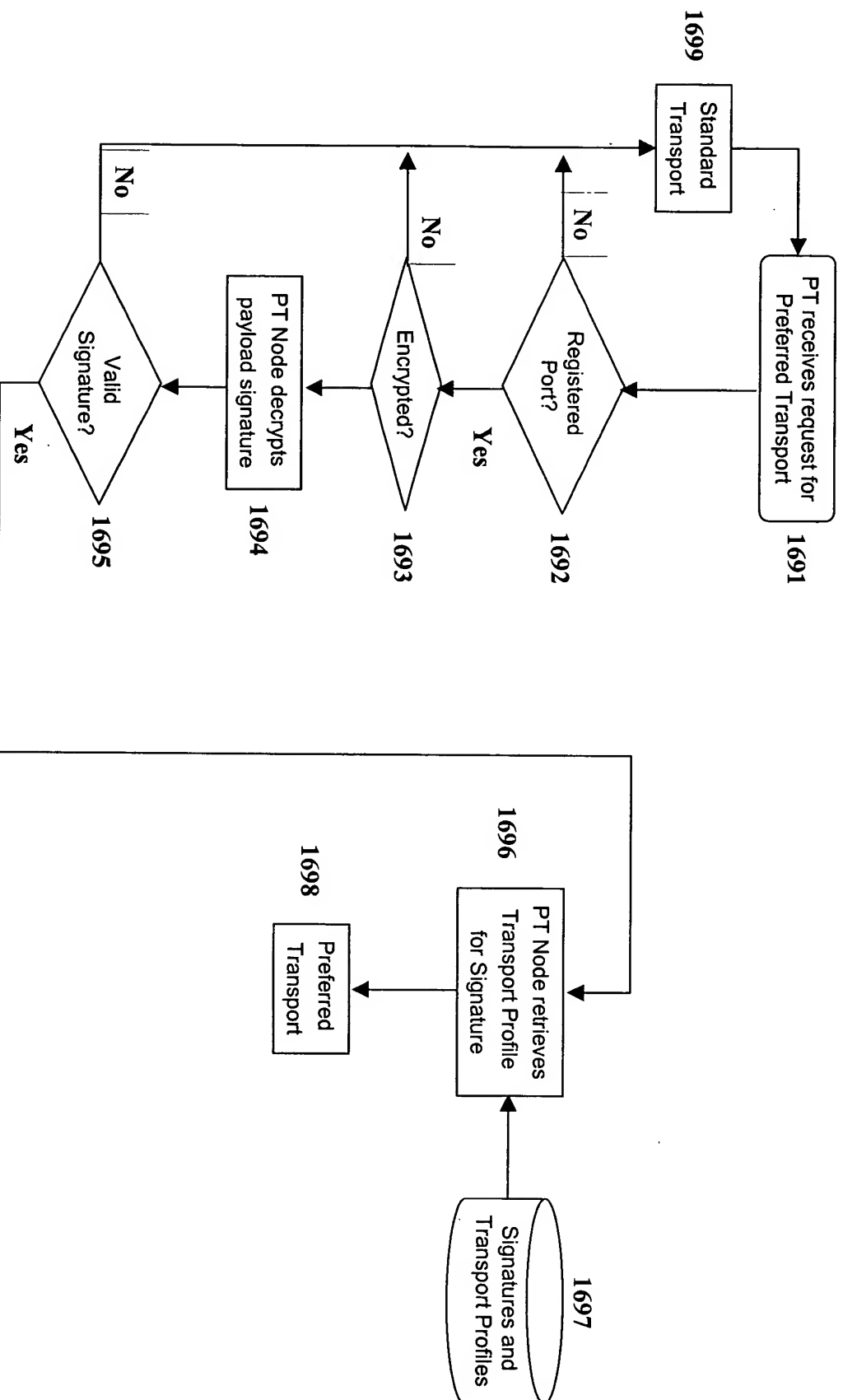


Fig 21

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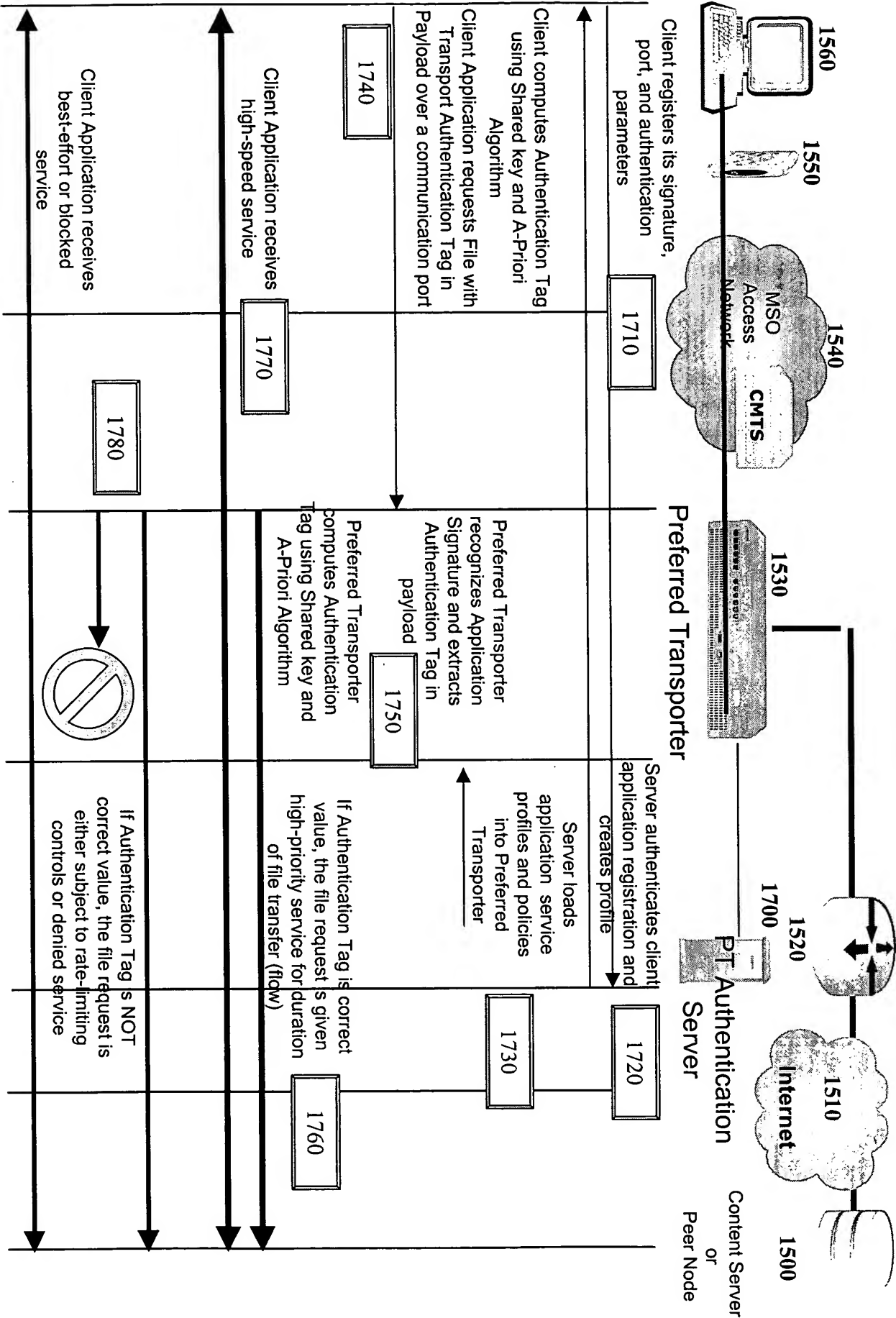


Figure 21a

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
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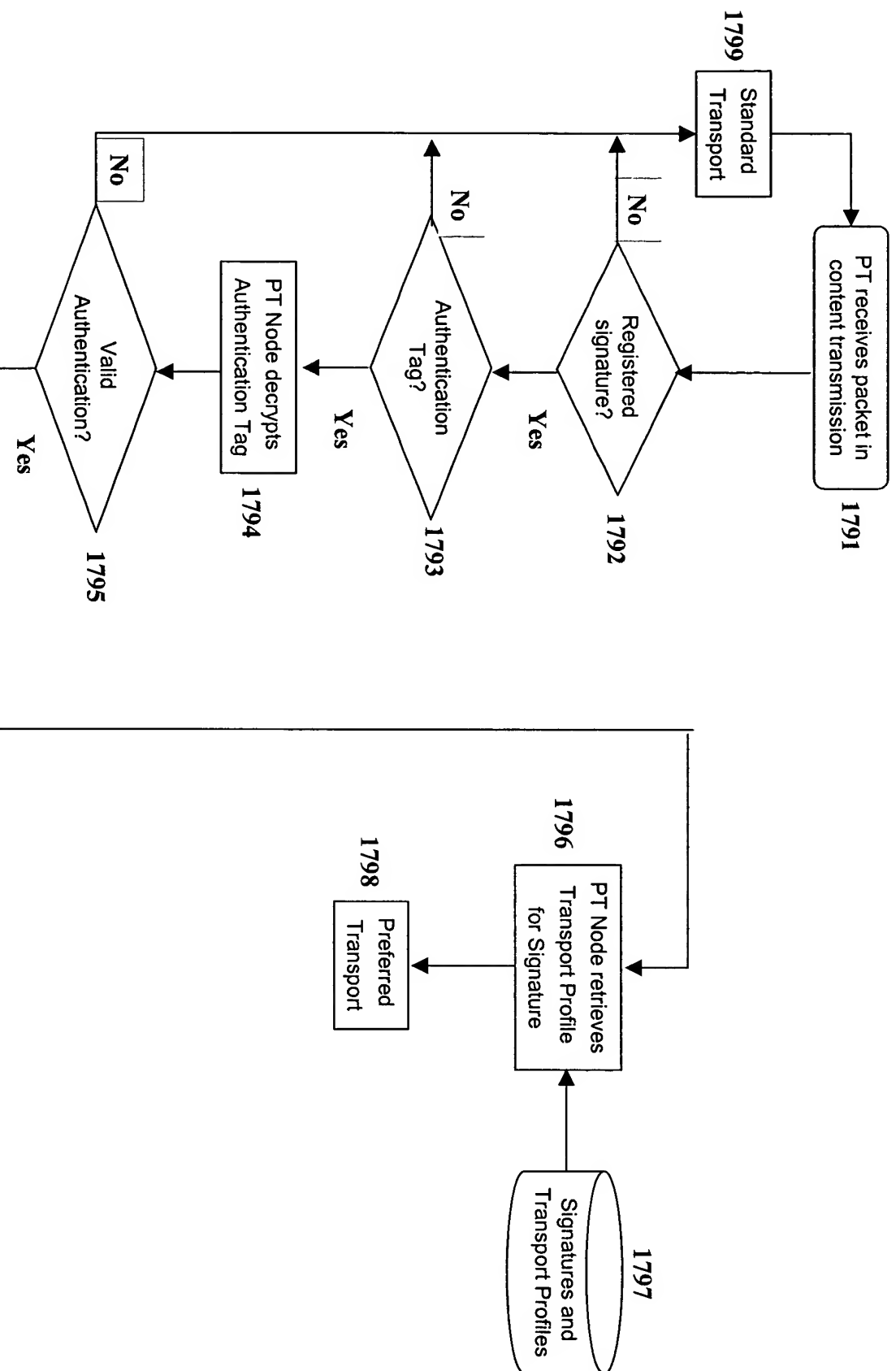


Figure 22

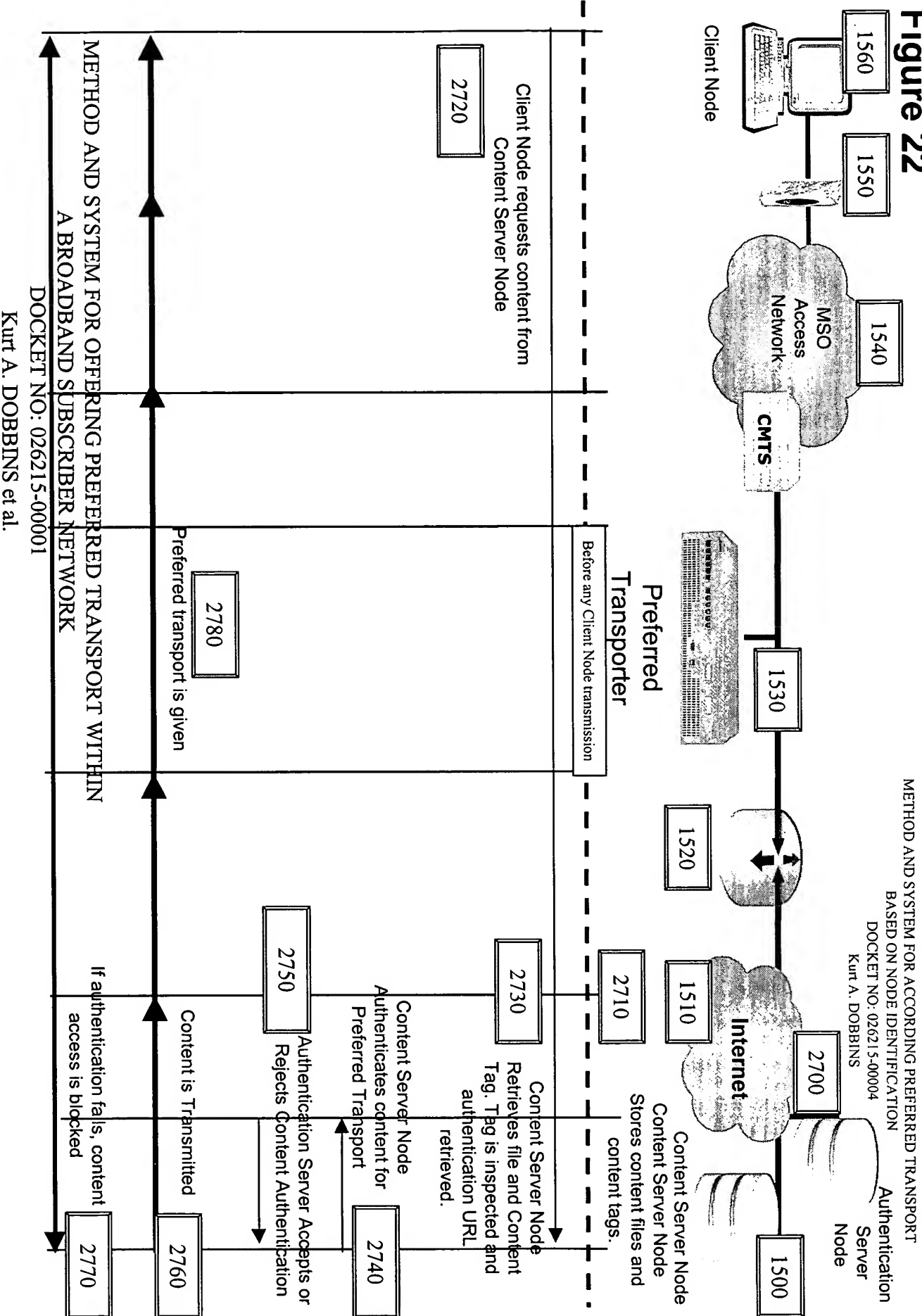


Figure 22a

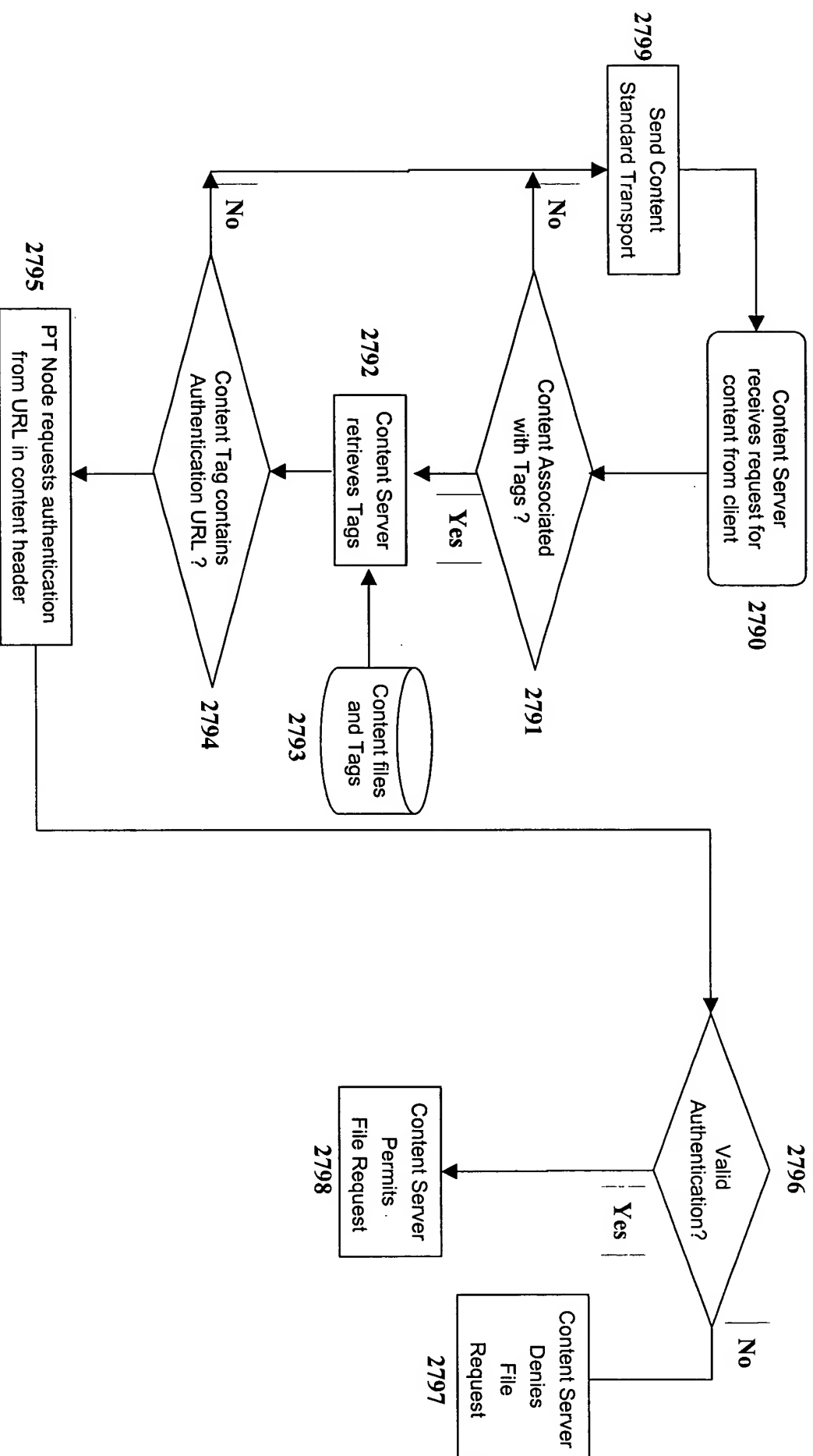


Figure 23

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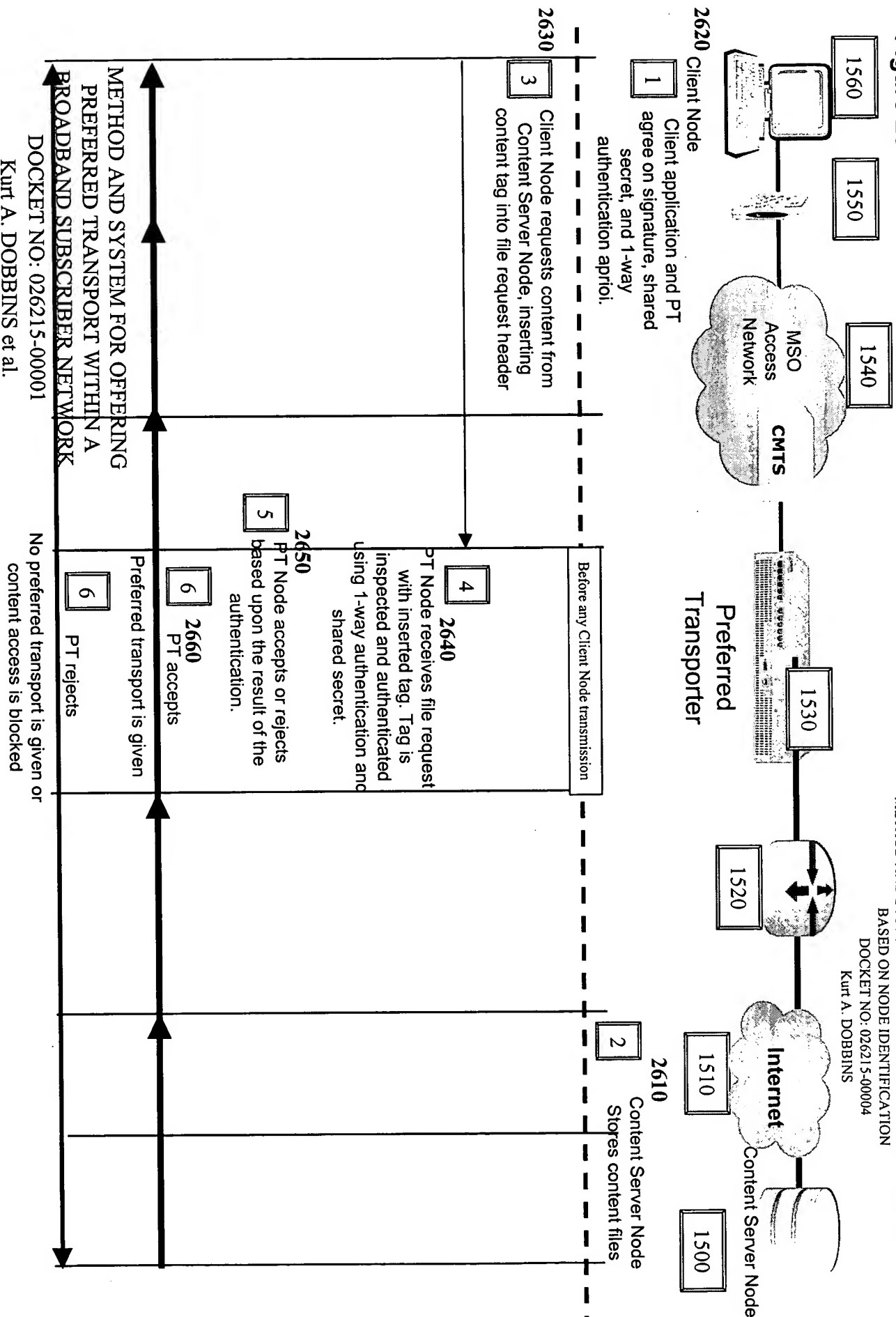


Figure 23a

METHOD AND SYSTEM FOR ACCORDING PREFERRED TRANSPORT
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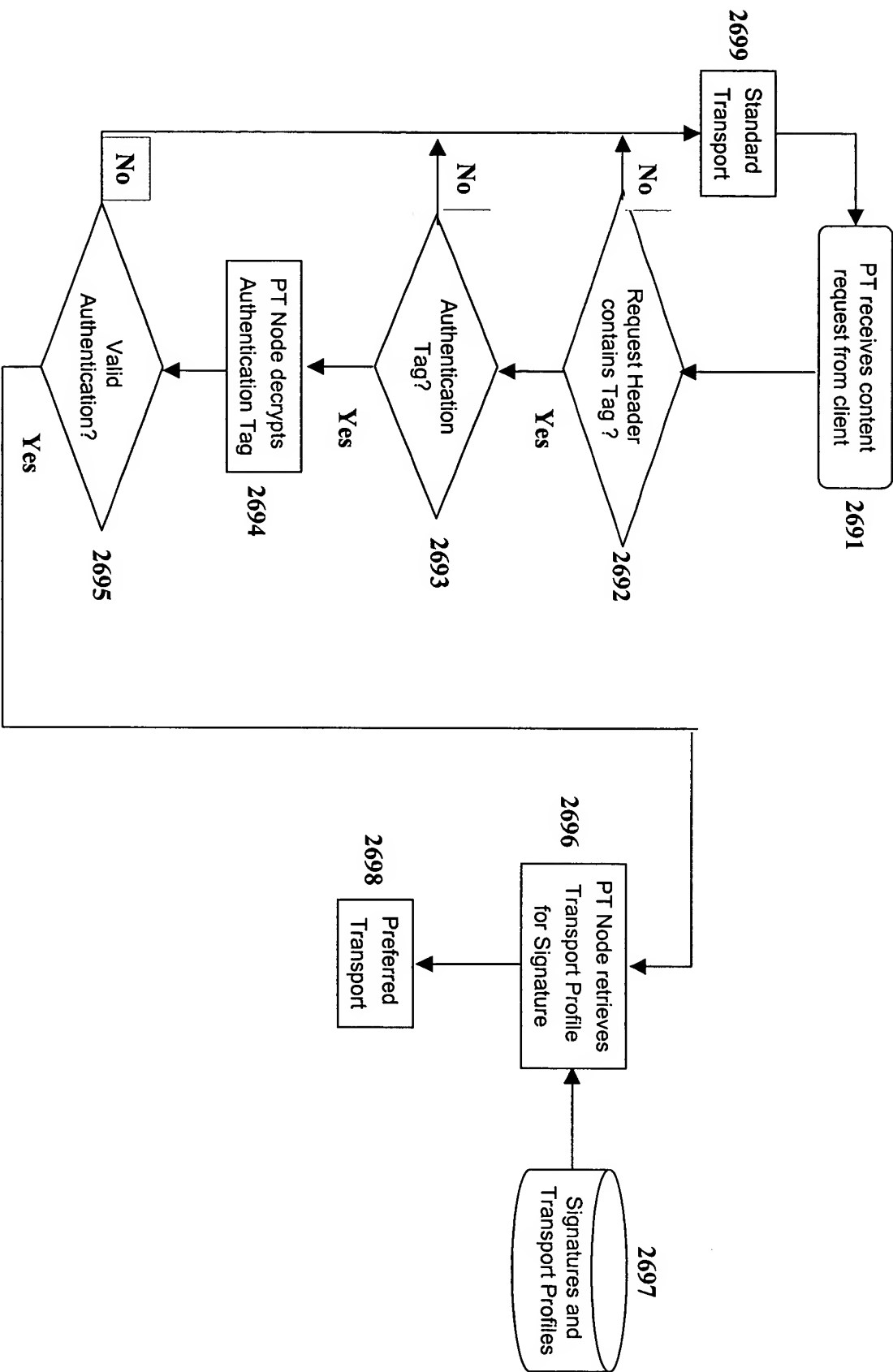
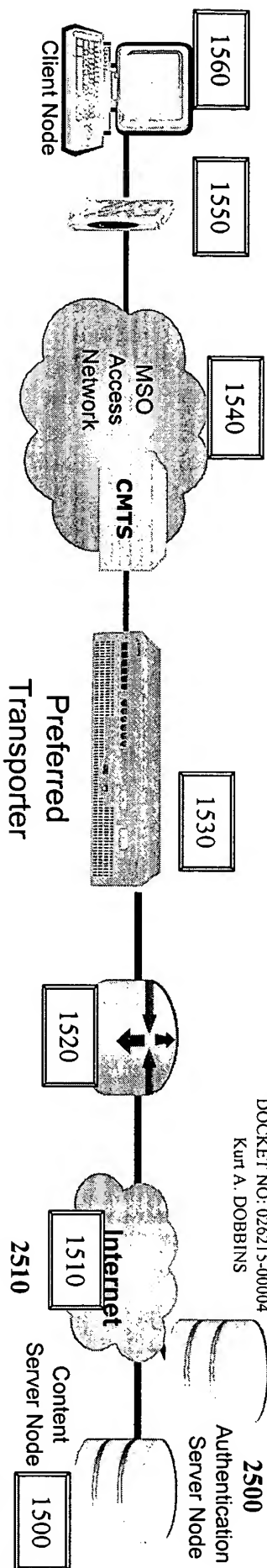


Figure 24



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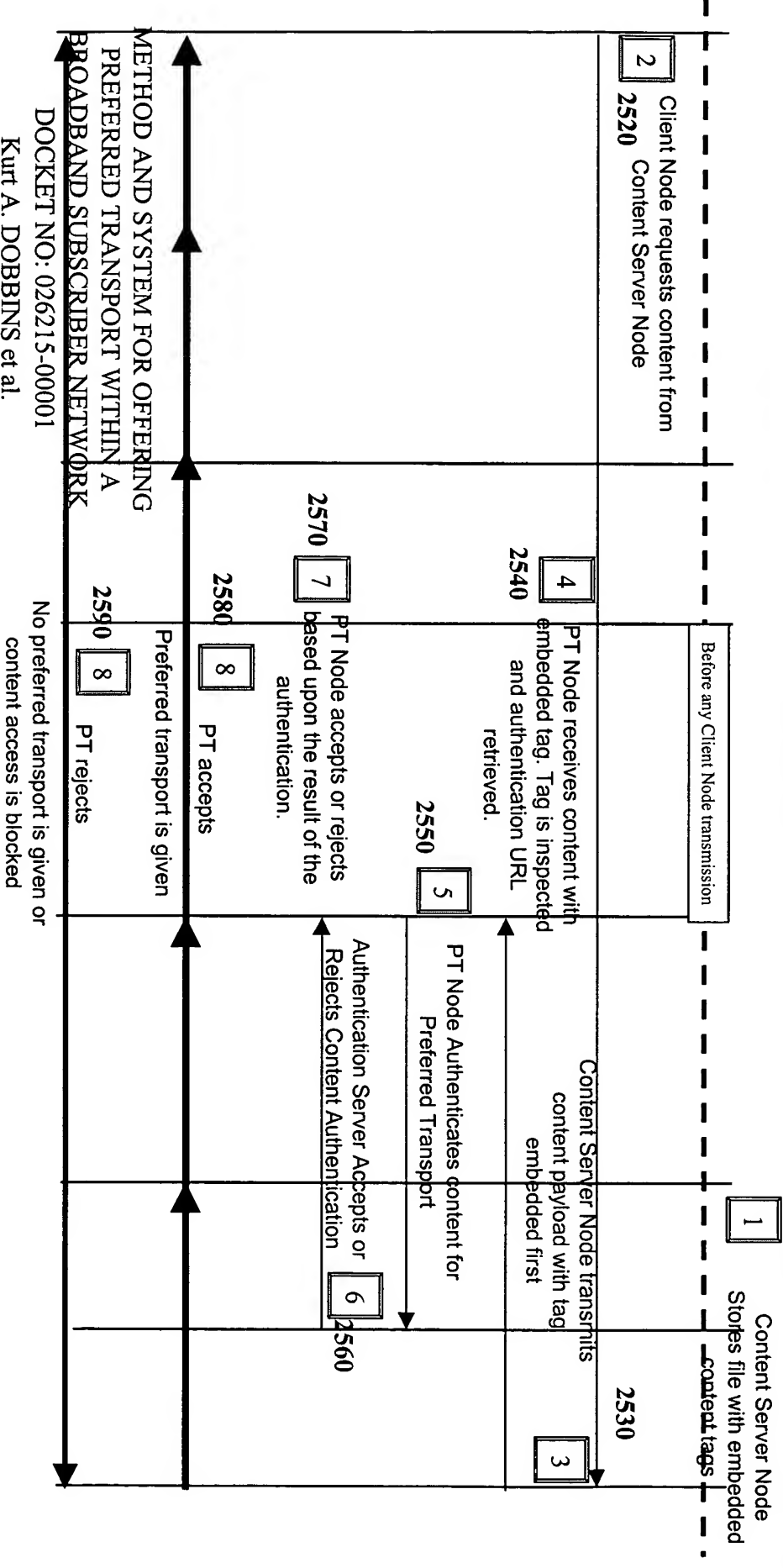


Figure 24a

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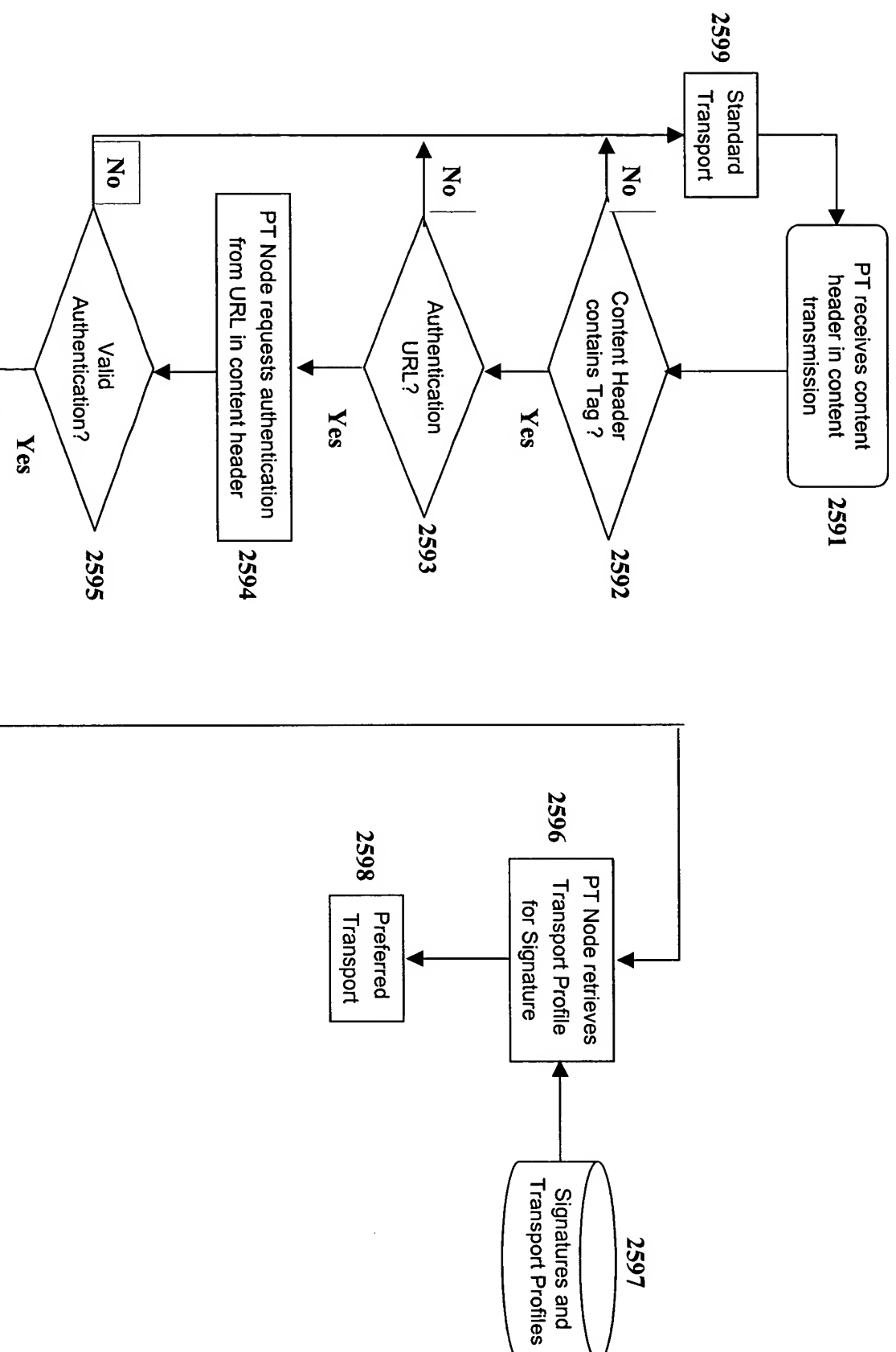


Figure 25

- ❑ **Leverage OLD Tree for Self-naming Tags**
 - Gives digital representation to textual names
 - Allows arbitrary hierarchy
 - Extensible with new content types
 - Packet encoding will use ASN.1 BER
- ❑ **Name Space Maintained by host**
 - Publish as Informational IETF MIB

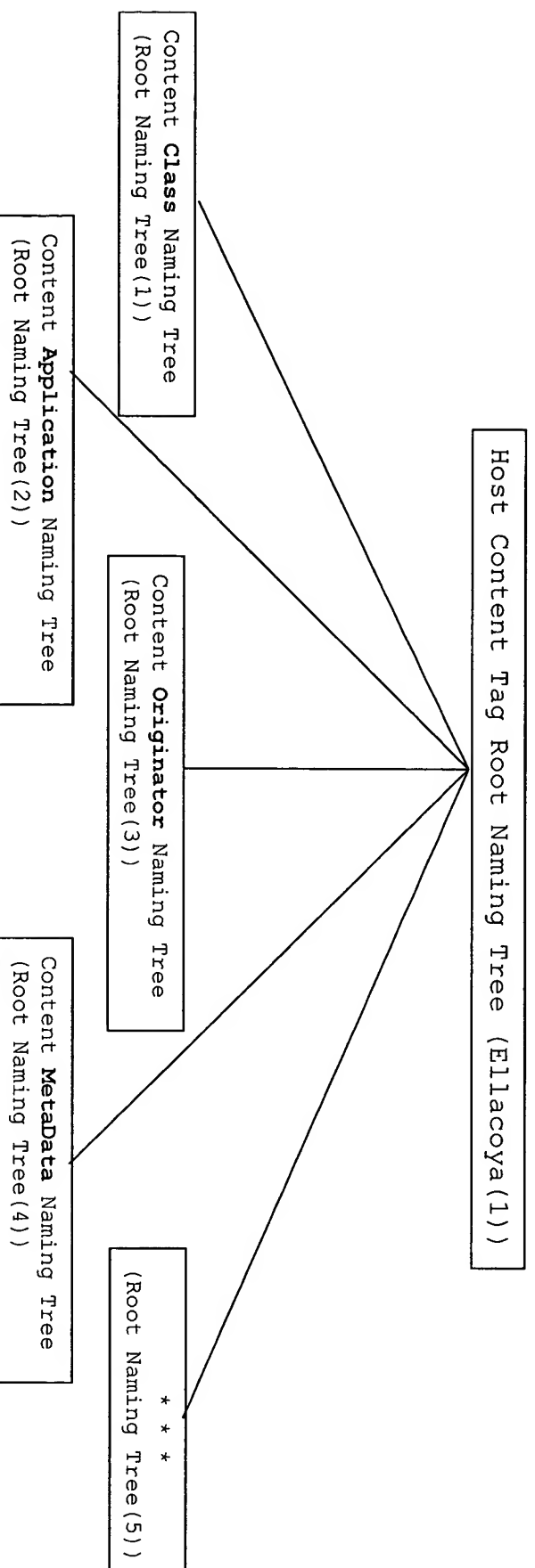


Figure 26

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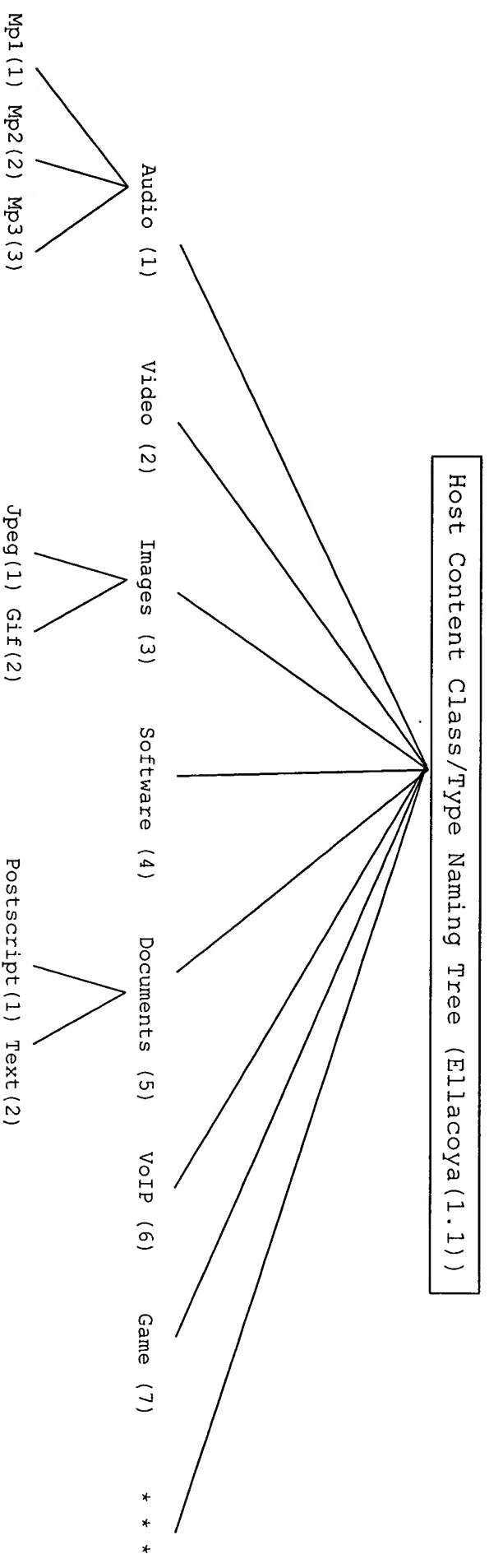


Figure 27

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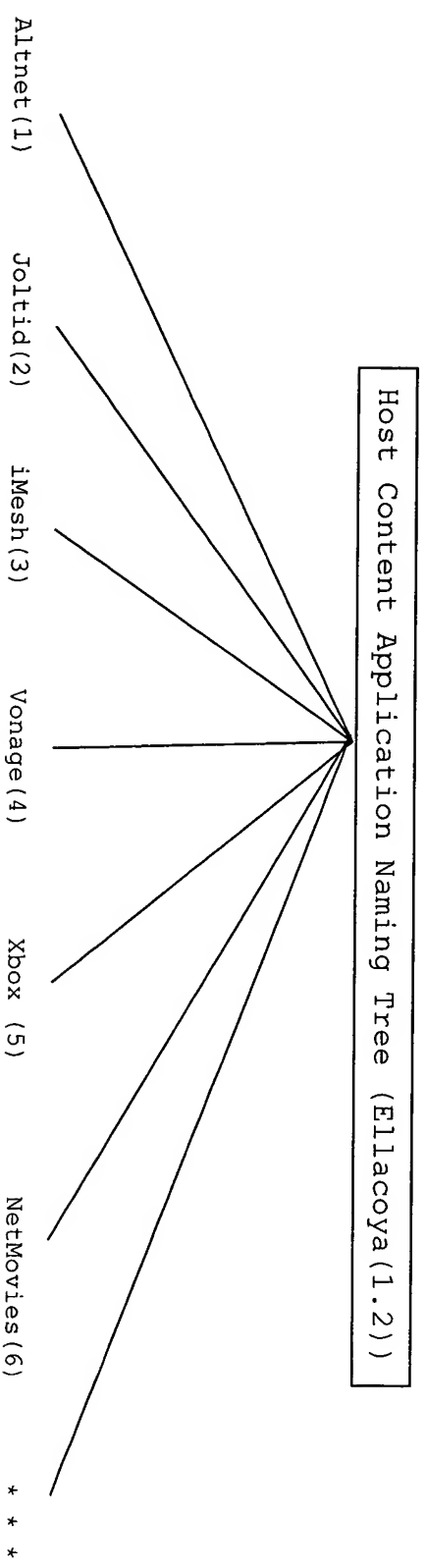


Figure 28

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